



DEPARTMENT OF TRANSPORTATION
HAZARDOUS MATERIALS REGULATIONS BOARD
WASHINGTON, D.C. 20590

13093

[Doc. No. HM-82; Amdts. 172-10, 173-50]

**PART 172—COMMODITY LIST OF
HAZARDOUS MATERIALS CON-
TAINING THE SHIPPING NAME OR
DESCRIPTION OF ALL ARTICLES
SUBJECT TO PARTS 170-189 OF
THIS CHAPTER**

PART 173—SHIPPERS

**Diffuoromonochloroethane in Tank
Trucks and Tank Cars**

The purpose of this amendment to the Department's Hazardous Materials Regulations is to provide for the transportation of diffuoromonochloroethane, a flammable compressed gas, in specifications MC 330 and MC 331 cargo tanks, and 105A100W tank car tanks.

On March 27, 1971, the Hazardous Materials Regulations Board published a notice of proposed rule making, Docket No. HM-82; Notice No. 71-9 (36 F.R. 5806) which proposed this amendment. No objections were received to the proposal.

One commenter observed that specification 105A100W tank car tanks should be authorized based on the vapor pressure of the commodity which is reported as being 49 p.s.i.g. at 105° F. This change has been included in the amendment. The Board agrees with the observation that allowing the lower design pressure tank is consistent with the requirements of the table in § 173.314 paragraph (c).

Another commenter pointed out that the shipping name might possibly be confused because of a difficulty in designating three different isomers. To preclude this difficulty, the shipping name designation has been modified to clarify what isomer is covered and to provide alternate shipping names. The Board considers this change necessary because of problems in filling density that might arise.

Accordingly, 49 CFR Parts 172, 173 are amended as follows:

I. Part 172:

(A) In § 172.5 paragraph (a), the commodity list is amended as follows:

§ 172.5 List of hazardous materials.

(a) * * *

Article	Classed as—	Exemptions and packing (see section)	Label required if not exempt	Maximum quantity in one outside container by rail express
(Add)				
1,1 difluoro 1-chloroethane. See Difluoromonochloroethane.				
(Change)				
Difluoromonochloroethane (1,1 difluoro 1-chloroethane).	F.G.	173.306, 173.304, 173.314, 173.315.	Red Gas	300 pounds.
...

II. Part 173:

(A) In § 173.314 paragraph (c), the table is amended as follows:

§ 173.314 Requirements for compressed gases in tank cars.

* * * * *

(c) * * *

Kind of gas	Maximum permitted filling density, Note 1	Required tank car, see § 173.31(a) (2) and (3)
(Change)		
Difluoromonochloroethane; Note 13	100	DOT-106A500X, 110A500W, Note 7. DOT-106A100W, Note 4.

(B) In § 173.315, paragraph (a) (1) table, (h) (2) table, and (i) (2) table are amended as follows:

§ 173.315 Compressed gases in cargo tanks and portable tank containers.

(a) * * *

(1) * * *

Kind of gas	Maximum permitted filling density		Specification container required	
	Percent by weight (see Note 1)	Percent by volume (see par. (f) of this section)	Type (see Note 2)	Minimum design pressure (psig)
(Add) Difluoromonochloroethane (see Note 9). * * *	100.	Note 7.	MC 330, MC 331.	100.

* * *

(h) * * *
(2) * * *

*Permitted
gaging
device*

*Kind of gas
(Add)*

Difluoromonochloroethane -----

* * *
None.
* * *

* * *

(i) * * *
(2) * * *

*Minimum
start-to-
discharge
pressure
(p.s.i.g.)*

*Kind of gas
(Add)*

Difluoromonochloroethane -----

* * *
100.
* * *

* * *

This amendment is effective August 31, 1971, however, compliance with the regulations, as amended herein, is authorized immediately.

(Secs. 831-835, Title 18, United States Code, sec. 9, Department of Transportation Act, U.S.C. 1657)

Issued in Washington, D.C., on July 7, 1971.

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by direction of Commandant
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